

Abstract

The invention relates to a disk motor with an armature disk (3), which is rotatably mounted and provided with permanent magnets, and with a stator which comprises a stator plate (10) which is equipped with coils (17a-f). The aim of the invention is to provide a disk motor that is as flat as possible and that is characterized by an improved smoothness of running. To this end, an annular soft-magnetic prestressing device (20) is arranged concentrically on the stator plate (10) in such a manner that at least one section of the prestressing device is located below the coil window (18a, b) of the coils (17a-b) in the axial direction. The armature disk (3) may support an annular flux-return element (5) opposite which the annular prestressing device (20) is located in the radial direction. Said prestressing device (20) has a cross-sectional contour that guides the magnetic lines of electric flux from the annular flux-return element (5) to the coil window.

09889500-100504